

PRODUCTION OF SPUN-DYED POLYAMIDE FIBER EXCELLENT IN FOULING RESISTANCE

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Abstract of JP2216275

PURPOSE:To obtain the subject fiber, excellent in fouling resistance to acidic fouling substances and improved in weather resistance by treating spun-dyed polyamide fiber having the amino terminal group concentration controlled to a specific value or below with a resist printing agent consisting of a specified amount or less of a phenolic derivative. **CONSTITUTION:**Spun-dyed polyamide fiber, prepared by using a pigment, etc., and controlling the amino terminal group concentration to ≤ 10 g equiv./10⁶g, preferably ≤ 5 g equiv./10⁶g with, e.g. 3,5-dicarboxybenzenesulfonic acid, is treated with a resist printing agent consisting of a phenolic derivative (e.g. sulfonated phenol formaldehyde condensate) in an amount of ≤ 2 wt.%, preferably 0.1-1.5wt.% based on the weight of the above-mentioned fiber to inactivate the amino terminal groups and improve resistance to weather and washing. Thereby, spun-dyed polyamide fiber, capable of preventing fouling with acidic foulings (e.g. an acidic fouling substance, such as food) in living and excellent in fouling resistance is obtained.

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